

## **Appendix A**

### **References**

#### **A-1. Required Publications**

**TI 809-04**

Seismic Design for Buildings

**TM 5-811-7**

Electrical Design, Cathodic Protection

**ER 1110-2-50**

Low Level Discharge Facilities for Drawdown of Impoundments

**ER 1110-2-110**

Instrumentation for Safety Evaluations of Civil Works Projects

**ER 1110-2-1806**

Earthquake Design and Evaluation of Civil Works Projects

**EM 385-1-1**

Safety and Health Requirements

**EM 1110-1-2009**

Architectural Concrete

**EM 1110-2-1602**

Hydraulic Design of Reservoir Outlet Works

**EM 1110-2-1612**

Ice Engineering

**EM 1110-2-2104**

Strength Design for Reinforced-Concrete Hydraulic Structures

**EM 1110-2-2105**

Design of Hydraulic Steel Structures

**EM 1110-2-2200**

Gravity Dam Design

**EM 1110-2-2502**

Retaining and Flood Walls

**EM 1110-2-2702**

Design of Spillway Tainter Gates

**EM 1110-2-2901**

Tunnels and Shafts in Rock

**EM 1110-2-2400**  
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**EM 1110-2-2902**  
Conduits, Culverts, and Pipes

**EM 1110-2-2906**  
Design of Pile Foundations

**EM 1110-2-3001**  
Planning and Design of Hydroelectric Power Plant Structures

**EM 1110-2-4205**  
Hydroelectric Power Plants Mechanical Design

**EM 1110-2-4300**  
Instrumentation for Concrete Structures

**EM 1110-2-6050**  
Response Spectra and Seismic Analysis for Concrete Hydraulic Structures

**EM 1110-2-6051**  
Time-History Dynamic Analysis of Concrete Hydraulic Structures

**ETL 1110-2-365**  
Nonlinear Incremental Structural Analysis of Massive Concrete Structures

**UFGS 11287A**  
Tainter Gates and Anchorages

**UFGS 13080**  
Seismic Protection for Miscellaneous Equipment

**UFGS 09971A**  
Metallizing: Hydraulic Structures

**UFGS 09965A**  
Painting: Hydraulic Structures

**UFGS 14210A**  
Elevators, Electric

**American Concrete Institute Committee 224 2001**  
American Concrete Institute Committee 224. 2001. "Control of Cracking in Concrete Structures," ACI 224R-89, Part 3, Farmington Hills, MI.

**American Society of Civil Engineers 1995**  
American Society of Civil Engineers. 1995. "Minimum Design Loads for Buildings and Other Structures," ASCE 7-95 (Revision of ASCE 7-88), New York.

**American Society of Mechanical Engineers 1996**  
American Society of Mechanical Engineers. ASME A17.1 Safety Code for Elevators and Escalators.

**American Association of State Highway and Transportation Officials 1998**

American Association of State Highway and Transportation Officials. 1998. "AASHTO LRFD Bridge Design Specifications," Washington, DC.

**Bathe and Wilson 1976**

Bathe, K. J., and Wilson, E. L. 1976. *Numerical Methods in Finite Element Analysis*, Prentice-Hall, Inc., Englewood Cliffs, NJ.

**Ebeling 1992**

Ebeling, R. M. 1992. "Introduction to the Computation of Response Spectrum for Earthquake Loading," Technical Report ITL-92-4, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Ebeling and Morrison 1992**

Ebeling, R. E., and Morrison, E. E., Jr. 1992. "Seismic Design of Waterfront Retaining Structures," Technical Report ITL 92-11, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS

**Federal Highway Administration 1995**

Federal Highway Administration 1995. "Seismic Retrofitting Manual for Highway Bridges," Report No. FHWA-RD-94-052, I. G. Buckle and I. M. Friedland, ed., McLean, VA.

**French, Ebeling, and Strom 1994**

French, S. E., Ebeling, R. M., and Strom, R. 1994. "Dynamics of Distributed-Mass Intake Towers using the Rayleigh Method," 1994 Corps of Engineers SEC Paper.

**Goyal and Chopra 1989**

Goyal, A., and Chopra, A. K. 1989. "Earthquake Analysis and Response of Intake-Outlet Towers," Report No. UCB/EERC-89-04, Earthquake Engineering Research Center, University of California, Berkeley.

**Hall and Radhakrishnan 1983**

Hall, R. L., and Radhakrishnan, N. 1983. "Case Study of Six Major General-Purpose Finite Element Programs," Technical Report K-83-4, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Jansen 1988**

Jansen, R. B. 1988. "Advanced Dam Engineering for Design, Construction, and Rehabilitation," Van Nostrand Reinhold, New York, NY.

**Moehle 1992**

Moehle, J. P. 1992. "Displacement-Based Design of RC Structures Subjected to Earthquakes," *Earthquake Spectra* 8(3), 403-428.

**Mononobe and Matsuo 1929**

Mononobe, N., and Matsuo, H. 1929. "On the Determination of Earth Pressures During Earthquakes," *Proceedings*, World Engineering Congress, 9.

**Newmark and Hall 1982**

Newmark, N. M., and Hall, W. J. 1982. "Earthquake Spectra and Design," Earthquake Engineering Research Institute, Berkeley, CA.

**Okabe 1984**

Okabe, S. 1984. *Introduction to Earthquake Engineering*. 2<sup>nd</sup> ed., University of Tokyo Press, 629 p.

**Pauley 1980**

Pauley, T. 1980. "Earthquake-Resisting Shearwalls--New Zealand Design Trends," *ACI Structural Journal*, May - June.

**Priestley and Benzoni 1996**

Priestley, M. J. N., and Benzoni, G. 1996. "Seismic Performance of Concrete Circular Columns with Low Longitudinal Reinforcement Ratios," *ACI Structural Journal*, July - August.

**U.S. Bureau of Reclamation 1976**

U.S. Bureau of Reclamation. 1976. "Design of Gravity Dams," Denver, CO.

**Wilson, Suharwardy, and Habibullah 1995**

Wilson, E. L., Suharwardy, I., and Habibullah, A., 1995. "A Clarification of the Orthogonal Effects in a Three-Dimensional Seismic Analysis," *Earthquake Spectral* 11(4).

**Wood 1989**

Wood, S. L. 1989. "Minimum Tensile Reinforcement Requirements in Walls," *ACE Structural Journal*, September - October, 582-591.

**Wood 1990**

Wood, S. L. 1990. "Shear Strength of Low-Rise Reinforced Concrete Walls," *ACE Structural Journal*, January - February, 99-107.

**A-2. Related Publications**

**American Concrete Institute**

American Concrete Institute. *Building Code Requirements for Reinforced Concrete (ACI 318)*, Redford Station, Detroit, MI.

**Biggs 1964**

Biggs, J. M. 1964. *Structural Dynamics*, McGraw-Hill, New York.

**Clough and Fragaszy 1977**

Clough, G. W., and Fragaszy, R. F. (1977). "A study of earth loadings on floodway retaining structures in the 1971 San Fernando Valley earthquake," *Proceedings, Sixth World Conference on Earthquake Engineering*, Sarita Prakashan, Meerut, India, 1977, Vol III, pp 2455-2460.

**Clough and Penzien 1993**

Clough, R. W., and Penzien, J. 1993. *Dynamics of Structures*, McGraw-Hill, New York.

**Der Kiureghian 1979**

Der Kiureghian, A. 1979. "On Response of Structures to Stationary Excitation," Report No. EERC 79-32, Earthquake Engineering Research Center, University of California, Berkeley.

**Dove 1998**

Dove, R. C. 1998. "Performance of Lightly Reinforced Concrete Intake Towers Under Selected Loadings," Technical Report SL-98-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Hays 1980**

Hays, W. W. 1980. "Procedures for Estimating Earthquake Ground Motions," Geological Survey Professional Paper No. 114, U.S. Geological Survey, Washington, DC.

**Housner 1963**

Housner, G. W. 1963. "The Behavior of Inverted Pendulum Structures During Earthquakes," *Bulletin of the Seismological Society of America* 53(2), 403-417.

**Ishiyama 1980**

Ishiyama, Y. 1980. "Review and Discussion on Overturning of Bodies by Earthquake Motions," BRI Research Paper No. 85, Building Research Institute, Ministry of Construction.

**Krinitzsky 1982**

Krinitzsky, E. L. 1982. "Essentials for Specifying Earthquake Motion Engineering Design," U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Liaw and Chopra 1973**

Liaw, C. Y., and Chopra, A. K. 1973. "Earthquake Response of Axisymmetric Tower Structures Surrounded by Water," Report No. 73-25, Earthquake Engineering Research Center, University of California, Berkeley.

**Lukose, Gergely, and White 1982**

Lukose, K., Gergely, P., and White, R. N. 1982. "Behavior of Reinforced Concrete Lapped Splices for Inelastic Cyclic Loading," *ACI Structural Journal*, September - October, 355-365.

**Lysmer et al. 1975**

Lysmer, J., Udaka, T., Tsai, C.-F., and Seed, H. B. 1975. "FLUSH – A Computer Program for Approximate 3-D Analysis of Soil-Structure Interaction Problems," Report No. EERC 75-30, Earthquake Engineering Research Center, University of California, Berkeley.

**Meek 1978**

Meek, J. W. 1978. "Dynamic Response of Tipping Core Building," *Earthquake Engineering and Structural Dynamics* 6(5), 437-454.

**Mlakar and Jones 1982**

Mlakar, P. F., and Jones, P. S. 1982. "Seismic Analysis of Intake Towers," Technical Report SL-82-8, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

**Montes and Rosenblueth 1968**

Montes, R., and Rosenblueth, E. 1968. "Cortantes y Momentos Sismicos en Chimeneas," Segundo Congreso Nacional de Ingenieria Sismica, Veracruz, Mexico.

**National Earthquake Hazards Reduction Program 1992**

National Earthquake Hazards Reduction Program. 1992. "Recommended Provisions for the Development of Seismic Regulations for New Buildings," Report Nos. FEMA 222 and 223, Federal Emergency Management Agency, Publications Division, Washington, DC.

**Orangun, Jirsa, and Breen 1977**

Orangun, C. O., Jirsa, J. O., and Breen, J. E. 1977. "A Reevaluation of Test Data on Development Length and Splices," *ACI Journal*, March, 114-122.

**Paz 1991**

Paz, M. 1991. *Structural Dynamics: Theory and Computation*, Van Nostrand Reinhold, New York.

**Priestley and Park 1987**

Priestley, M. N. J., and Park, R. 1987. "Strength and Ductility of Concrete Bridge Columns Under Seismic Loading," *ACI Structural Journal*, January - February.

**Quest Structures 2000**

Quest Structures. 2000. "ITAP – Intake Tower Analysis Program; Finite Element Program for Analysis of Free Standing Intake Tower," Quest Structures, Orinda, CA.

**Rea, Liaw, and Chopra 1975**

Rea, D., Liaw, C.-Y., and Chopra, A. K. 1975. "Dynamic Properties of San Bernardino Intake Tower," Report EERC 75-7, Earthquake Engineering Research Center, University of California, Berkeley.

**Rosenbloeth and Contreas 1977**

Rosenbloeth, E., and Contreas, H. 1977. "Approximate Design for Multicomponent Earthquakes," *ASCE Journal of the Engineering Mechanics Division*, October.

**Seed, Ugas, and Lysmer 1974**

Seed, H. B., Ugas, C., and Lysmer, J. 1974. "Site-Dependent Spectra for Earthquake-Resistant Design," *Bulletin of the Seismological Society of America* 66(1).

**Seismic Design Handbook 1989**

Seismic Design Handbook, Van Nostrand Reinhold, Farzad Naeim, ed., New York, NY.

**Shore Protection Manual 1984**

*Shore Protection Manual*. 1984. 4<sup>th</sup> ed., 2 Vol, U.S. Army Engineer Waterways Experiment Station, U.S. Government Printing Office, Washington, DC.

**Veletsos and Younan 1994**

Veletsos, A. S., and Younan, A. H. 1994. "Dynamic Soil Pressures on Rigid Vertical Walls," *Earthquake Engineering and Structural Dynamic*, Vol 23, pp 275-301.

**Wolf 1995**

Wolf, J. P. 1995. "Discussion on paper "Dynamic Soil Pressures on Rigid Vertical Walls," by A. S. Veletsos and A. H. Younan, *Earthquake and Structural Dynamic*, Vol 24, pp 1287-1291.